

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference F0875PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/JP 03/11901	International filing date (day/month/year) 18/09/2003	(Earliest) Priority Date (day/month/year) 30/09/2002
Applicant KONICA MINOLTA HOLDINGS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

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☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/135

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/008512 A1 (MARUYAMA KOICHI) 19 July 2001 (2001-07-19) paragraph '0086!; figure 3B abstract	1-45
Y	----- US 6 118 594 A (MARUYAMA KOICHI) 12 September 2000 (2000-09-12) the whole document	1-45
Y	& PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06, 22 September 2000 (2000-09-22) & JP 2000 081566 A (ASAHI OPTICAL CO LTD), 21 March 2000 (2000-03-21) cited in the application abstract ----- -/--	1-45

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

15 April 2004

Date of mailing of the international search report

22/04/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SWANSON G J: "Binary Optics Technology: The Theory and Design of Multi-level Diffractive Optical Elements" TECHNICAL REPORT. MASSACHUSETTS INSTITUTE OF TECHNOLOGY LINCOLN LABORATORY, XX, XX, no. 854, 14 August 1989 (1989-08-14), page COMPLETE53, XP002102140 the whole document -----	1-45
A	EP 0 610 055 A (MATSUSHITA ELECTRIC IND CO LTD) 10 August 1994 (1994-08-10) abstract; figure 8 -----	1-45
A	WO 02/21522 A (KONINKL PHILIPS ELECTRONICS NV) 14 March 2002 (2002-03-14) the whole document -----	1-45

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2001008512	A1	19-07-2001	DE 10065394 A1 JP 2001249273 A	05-07-2001 14-09-2001
US 6118594	A	12-09-2000	CN 1305630 T DE 19929623 A1 ID 28515 A WO 0000964 A1 JP 2000081566 A KR 2000006498 A TW 426803 B	25-07-2001 30-12-1999 31-05-2001 06-01-2000 21-03-2000 25-01-2000 21-03-2001
EP 0610055	A	10-08-1994	DE 69427714 D1 DE 69427714 T2 DE 69429371 D1 DE 69429371 T2 EP 1049084 A2 EP 1381038 A2 EP 1381039 A2 EP 1376558 A2 EP 1381034 A2 EP 0610055 A2 EP 0836178 A1 EP 0992988 A2 JP 8062493 A JP 2532818 B2 JP 7098431 A US 5446565 A US 5815293 A CN 1098508 A , B	23-08-2001 08-05-2002 17-01-2002 14-08-2002 02-11-2000 14-01-2004 14-01-2004 02-01-2004 14-01-2004 10-08-1994 15-04-1998 12-04-2000 08-03-1996 11-09-1996 11-04-1995 29-08-1995 29-09-1998 08-02-1995
WO 0221522	A	14-03-2002	CN 1394335 T WO 0221522 A1 EP 1320851 A1 US 2002118427 A1	29-01-2003 14-03-2002 25-06-2003 29-08-2002